

L. Helms

1642Helms

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/038,261

DATE: 09/28/1999
TIME: 15:04:12

INPUT SET: S33504.raw

ATTACHMENT
TO
#11

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information
4
5
6 (i) APPLICANT: Reiter, Robert
7 Witte, Owen
8
9 (ii) TITLE OF THE INVENTION: PSCA: Prostate Stem Cell Antigen
10
11
12 (iii) NUMBER OF SEQUENCES: 7
13
14 (iv) CORRESPONDENCE ADDRESS:
15 (A) ADDRESSEE: Mandel & Adriano
16 (B) STREET: 35 N. Arroyo Parkway, Suite 60
17 (C) CITY: Pasadena
18 (D) STATE: California
19 (E) COUNTRY: USA
20 (F) ZIP: 91103
21
22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Diskette
24 (B) COMPUTER: IBM Compatible
25 (C) OPERATING SYSTEM: DOS
26 (D) SOFTWARE: FastSEQ for Windows Version 2.0
27
28 (vi) CURRENT APPLICATION DATA:
29 (A) APPLICATION NUMBER: 09/038,261
30 (B) FILING DATE: 10-MAR-1998
31 (C) CLASSIFICATION:
32
33 (vii) PRIOR APPLICATION DATA:
34 (A) APPLICATION NUMBER: 08/814,279
35 (B) FILING DATE: 10-MAR-1997
36
37 (viii) ATTORNEY/AGENT INFORMATION:
38 (A) NAME: Sarah B. Adriano
39 (B) REGISTRATION NUMBER: 34,470
40 (C) REFERENCE/DOCKET NUMBER: 30435.54USI2
41
42 (ix) TELECOMMUNICATION INFORMATION:
43 (A) TELEPHONE: 626-395-7801
44 (B) TELEFAX: 626-395-0694
45 (C) TELEX:
46

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/038,261DATE: 09/28/1999
TIME: 15:04:12

INPUT SET: S33504.raw

47
 48 (2) INFORMATION FOR SEQ ID NO:1:
 49
 50 (i) SEQUENCE CHARACTERISTICS:
 51 (A) LENGTH: 998 base pairs
 52 (B) TYPE: nucleic acid
 53 (C) STRANDEDNESS: single
 54 (D) TOPOLOGY: linear
 55 (ii) MOLECULE TYPE: cDNA
 56 (ix) FEATURE:
 57
 58 (A) NAME/KEY: Other
 59 (B) LOCATION: 1...998
 60 (D) OTHER INFORMATION: Human PSCA nucleotide sequence
 61
 62 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
 63

| | | |
|----|---------------------------------------------------------------------|-----|
| 64 | AGGGAGAGGC AGTGACCATG AAGGCTGTGC TGCTTGCCT GTTGATGGCA GGCTTGGCCC | 60 |
| 65 | TGCAGCCAGG CACTGCCCTG CTGTGCTACT CCTGCAAAGC CCAGGTGAGC AACGAGGACT | 120 |
| 66 | GCCTGCAGGT GGAGAACTGC ACCCAGCTGG GGGAGCAGTG CTGGACCGCG CGCATCCGCG | 180 |
| 67 | CAGTTGGCCT CCTGACCGTC ATCAGCAAAG GCTGCAGCTT GAACTGCGTG GATGACTCAC | 240 |
| 68 | AGGACTACTA CGTGGGCAAG AAGAACATCA CGTGCTGTGA CACCGACTTG TGCAACGCCA | 300 |
| 69 | GCGGGGCCCA TGCCCTGCAG CCGGCTGCCG CCATCCTTGC GCTGCTCCCT GCACCTGGCC | 360 |
| 70 | TGCTGCTCTG GGGACCCGGC CAGCTATAGG CTCTGGGGGG CCCCCGCTGCA GCCCACACTG | 420 |
| 71 | GGTGTGGTGC CCCAGGCCCTT TGTGCCACTC CTCACAGAAC CTGGCCCAAGT GGGAGCCTGT | 480 |
| 72 | CCTGGTCCT GAGGCACATC CTAACGCAAG TTTGACCATG TATGTTTGC A CCCCTTTCC | 540 |
| 73 | CCNAACCCTG ACCTTCCCCT GGGCCTTTTC CAGGATTCCN ACCNGGCAGA TCAGTTTTAG | 600 |
| 74 | TGANACANAT CCGCNTGCAG ATGGCCCCCTC CAACCNNTTN TGTGNTGTT TCCATGGCCC | 660 |
| 75 | AGCATTTCC ACCCTTAACC CTGTGTTCAAG GCACCTNTTC CCCCAGGAAG CCTTCCCTGC | 720 |
| 76 | CCACCCCATT TATGAATTGA GCCAGGTTTG GTCCGTGGTG TCCCCCGCAC CCAGCAGGGG | 780 |
| 77 | ACAGGCAATC AGGAGGGCCC AGTAAAGGCT GAGATGAAGT GGACTGAGTA GAACTGGAGG | 840 |
| 78 | ACAAGAGTTG ACGTGAGTTC CTGGGAGTTT CCAGAGATGG GGCCTGGAGG CCTGGAGGAA | 900 |
| 79 | GGGGCAGGC CTCACATTG TGGGNTCCC GAATGGCAGC CTGAGCACAG CGTAGGCCCT | 960 |
| 80 | TAATAAACAC CTGTTGGATA AGCCAAAAAA AAAAAAAA | 998 |

81
 82 (2) INFORMATION FOR SEQ ID NO:2:
 83
 84 (i) SEQUENCE CHARACTERISTICS:
 85 (A) LENGTH: 123 amino acids
 86 (B) TYPE: amino acid
 87 (C) STRANDEDNESS: unknown
 88 (D) TOPOLOGY: unknown
 89 (ii) MOLECULE TYPE: protein
 90 (ix) FEATURE:
 91
 92 (A) NAME/KEY: Other
 93 (B) LOCATION: 1...123
 94 (D) OTHER INFORMATION: Human PSCA amino acid sequence
 95
 96 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
 97

98 Met Lys Ala Val Leu Leu Ala Leu Leu Met Ala Gly Leu Ala Leu Gln
 99 1 5 10 15

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/038,261DATE: 09/28/1999
TIME: 15:04:13

INPUT SET: S33504.raw

100 Pro Gly Thr Ala Leu Leu Cys Tyr Ser Cys Lys Ala Gln Val Ser Asn
 101 20 25 30
 102 Glu Asp Cys Leu Gln Val Glu Asn Cys Thr Gln Leu Gly Glu Gln Cys
 103 35 40 45
 104 Trp Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys
 105 50 55 60
 106 Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly
 107 65 70 75 80
 108 Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala Ser Gly
 109 85 90 95
 110 Ala His Ala Leu Gln Pro Ala Ala Ile Leu Ala Leu Leu Pro Ala
 111 100 105 110
 112 Leu Gly Leu Leu Trp Gly Pro Gly Gln Leu
 113 115 120
 114
 115 (2) INFORMATION FOR SEQ ID NO:3:
 116
 117 (i) SEQUENCE CHARACTERISTICS:
 118 (A) LENGTH: 441 base pairs
 119 (B) TYPE: nucleic acid
 120 (C) STRANDEDNESS: single
 121 (D) TOPOLOGY: linear
 122 (ii) MOLECULE TYPE: cDNA
 123 (ix) FEATURE:
 124
 125 (A) NAME/KEY: Other
 126 (B) LOCATION: 1...441
 127 (D) OTHER INFORMATION: mPSCA nucleotide sequence
 128
 129 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
 130
 131 ATGAAGACAG TTTTTTTTAT CCTGCTGGCC ACCTACTTAG CCCTGCATCC AGGTGCTGCT 60
 132 CTGCAGTGCT ATTCAATGCAC AGCACAGATG AACAAACAGAG ACTGTCTGAA TGTACAGAAC 120
 133 TGCAGCCTGG ACCAGCACAG TTGCTTTACA TCGCGCATCC GGGCATTGG ACTCGTGACA 180
 134 GTTATCAGTA AGGGCTGCAG CTCACAGTGT GAGGATGACT CGGAGAACTA CTATTTGGC 240
 135 AAGAAGAACCA TCACGTGCTG CTACTCTGAC CTGTGCAATG TCAACGGGGC CCACACCCCTG 300
 136 AAGCCACCCA CCACCCCTGGG GCTGCTGACC GTGCTCTGCA GCCTGTTGCT GTGGGGCTCC 360
 137 AGCCGTCTGT AGGCTCTGGG AGAGCCTTACCA ATAGCCCGAT TGTGAAGGGA TGAGCTGCAC 420
 138 TCCACCCAC CCCCCACACAG G 441
 139
 140 (2) INFORMATION FOR SEQ ID NO:4:
 141
 142 (i) SEQUENCE CHARACTERISTICS:
 143 (A) LENGTH: 123 amino acids
 144 (B) TYPE: amino acid
 145 (C) STRANDEDNESS: unknown
 146 (D) TOPOLOGY: unknown
 147 (ix) FEATURE:
 148
 149 (A) NAME/KEY: Other
 150 (B) LOCATION: 1...123
 151 (D) OTHER INFORMATION: mPSCA amino acid translation
 152

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/038,261DATE: 09/28/1999
TIME: 15:04:13

INPUT SET: S33504.raw

153 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
 154
 155 Met Lys Thr Val Phe Phe Ile Leu Leu Ala Thr Tyr Leu Ala Leu His
 156 1 5 10 15
 157 Pro Gly Ala Ala Leu Gln Cys Tyr Ser Cys Thr Ala Gln Met Asn Asn
 158 20 25 30
 159 Arg Asp Cys Leu Asn Val Gln Asn Cys Ser Leu Asp Gln His Ser Cys
 160 35 40 45
 161 Phe Thr Ser Arg Ile Arg Ala Ile Gly Leu Val Thr Val Ile Ser Lys
 162 50 55 60
 163 Gly Cys Ser Ser Gln Cys Glu Asp Asp Ser Glu Asn Tyr Tyr Leu Gly
 164 65 70 75 80
 165 Lys Lys Asn Ile Thr Cys Cys Tyr Ser Asp Leu Cys Asn Val Asn Gly
 166 85 90 95
 167 Ala His Thr Leu Lys Pro Pro Thr Thr Leu Gly Leu Leu Thr Val Leu
 168 100 105 110
 169 Cys Ser Leu Leu Trp Gly Ser Ser Arg Leu
 170 115 120
 171
 172 (2) INFORMATION FOR SEQ ID NO:5:
 173
 174 (i) SEQUENCE CHARACTERISTICS:
 175 (A) LENGTH: 140 amino acids
 176 (B) TYPE: amino acid
 177 (C) STRANDEDNESS: unknown
 178 (D) TOPOLOGY: unknown
 179 (ix) FEATURE:
 180
 181 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
 182
 183 Met Lys Ile Phe Leu Pro Val Leu Leu Ala Ala Leu Leu Gly Val Glu
 184 1 5 10 15
 185 Arg Ala Ser Ser Leu Met Cys Phe Ser Cys Leu Asn Gln Lys Ser Asn
 186 20 25 30
 187 Leu Tyr Cys Leu Lys Pro Thr Ile Cys Ser Asp Gln Asp Asn Tyr Cys
 188 35 40 45
 189 Val Thr Val Ser Ala Ser Ala Gly Ile Gly Asn Leu Val Thr Phe Gly
 190 50 55 60
 191 His Ser Leu Ser Lys Thr Cys Ser Pro Ala Cys Pro Ile Pro Glu Gly
 192 65 70 75 80
 193 Val Asn Val Gly Val Ala Ser Met Gly Ile Ser Cys Cys Gln Ser Phe
 194 85 90 95
 195 Leu Cys Asn Phe Ser Ala Ala Asp Gly Gly Leu Arg Ala Ser Val Thr
 196 100 105 110
 197 Leu Leu Gly Ala Gly Leu Leu Leu Ser Leu Leu Pro Ala Leu Leu Arg
 198 115 120 125
 199 Phe Gly Pro Leu Leu Leu Trp Gly Pro Gly Gln Leu
 200 130 135 140
 201
 202 (2) INFORMATION FOR SEQ ID NO:6:
 203
 204 (i) SEQUENCE CHARACTERISTICS:
 205 (A) LENGTH: 123 amino acids

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/038,261DATE: 09/28/1999
TIME: 15:04:13

INPUT SET: S33504.raw

206 (B) TYPE: amino acid
207 (C) STRANDEDNESS: unknown
208 (D) TOPOLOGY: unknown
209
210 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
211
212 Met Lys Ala Val Leu Leu Ala Leu Leu Met Ala Gly Leu Ala Leu Gln
213 1 5 10 15
214 Pro Gly Thr Ala Leu Leu Cys Tyr Ser Cys Lys Ala Gln Val Ser Asn
215 20 25 30
216 Glu Asp Cys Leu Gln Val Glu Asn Cys Thr Gln Leu Gly Glu Gln Cys
217 35 40 45
218 Trp Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys
219 50 55 60
220 Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly
221 65 70 75 80
222 Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala Ser Gly
223 85 90 95
224 Ala His Ala Leu Gln Pro Ala Ala Ala Ile Leu Ala Leu Leu Pro Ala
225 100 105 110
226 Leu Gly Leu Leu Trp Gly Pro Gly Gln Leu
227 115 120
228
229 (2) INFORMATION FOR SEQ ID NO:7:
230
231 (i) SEQUENCE CHARACTERISTICS:
232 (A) LENGTH: 123 amino acids
233 (B) TYPE: amino acid
234 (C) STRANDEDNESS: unknown
235 (D) TOPOLOGY: unknown
236
237 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
238
239 Met Lys Thr Val Leu Phe Leu Leu Ala Thr Tyr Leu Ala Leu His
240 1 5 10 15
241 Pro Gly Ala Ala Leu Gln Cys Tyr Ser Cys Thr Ala Gln Met Asn Asn
242 20 25 30
243 Arg Asp Cys Leu Asn Val Gln Asn Cys Ser Leu Asp Gln His Ser Cys
244 35 40 45
245 Phe Thr Ser Arg Ile Arg Ala Ile Gly Leu Val Thr Val Ile Ser Lys
246 50 55 60
247 Gly Cys Ser Ser Gln Cys Glu Asp Asp Ser Glu Asn Tyr Tyr Leu Gly
248 65 70 75 80
249 Lys Lys Asn Ile Thr Cys Cys Tyr Ser Asp Leu Cys Asn Val Asn Gly
250 85 90 95
25

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/038,261

DATE: 09/28/1999
TIME: 15:04:14

INPUT SET: S33504.raw

Line

Error

Original Text